

AMENDMENTS TO THE CLAIMS

1. **(Original)** A resin composition comprising a polymer and at least 5 % by weight of an ester compound, wherein the ester compound and the polymer are obtained by reacting a diene, a dienophile and a carboxylic acid.
2. **(Original)** A resin composition according to claim 1 comprising at least 10 % by weight of the ester compound.
3. **(Original)** A resin composition according to claim 1, wherein the polymer has no acid functionalities.
4. **(Original)** A resin composition according to claim 1, wherein the ester compound and the polymer are obtained by reacting a diene, a dienophile and a carboxylic acid present in a reaction mixture, wherein the reaction mixture comprises up to about 75 % by weight of the diene, up to about 55 % by weight of the dienophile, and from about 10 to about 75 % by weight of the carboxylic acid.
5. **(Original)** A resin composition according to claim 4, wherein the reaction mixture comprises from about 15 to about 60 % by weight of the diene, from about 10 to about 45 % by weight of the dienophile, and from about 15 to about 60 % by weight of the carboxylic acid.
6. **(Original)** A resin composition according to claim 1, wherein the resin composition has an acid number below about 50.
7. **(Original)** A resin composition according to claim 1, wherein the resin composition has an acid number below about 20.
8. **(Original)** A resin composition according to claim 1, wherein the carboxylic acid is an organic carboxylic acid.
9. **(Original)** A resin composition according to claim 8, wherein the organic carboxylic acid is a rosin acid, a derivative of a rosin acid, or a mixture thereof.

10. **(Original)** A resin composition according to claim 1, wherein the diene is a hydrocarbon diene.

11. **(Original)** A resin composition according to claim 10, wherein the diene is a cyclic hydrocarbon diene.

12. **(Original)** A resin composition according to claim 11, wherein the diene is a polycyclic hydrocarbon diene.

13. **(Original)** A resin composition according to claim 12, wherein the diene is dicyclopentadiene.

14. **(Original)** A resin composition according to claim 1, wherein the dienophile is selected from the group consisting of terpenes, cyclic hydrocarbons, anhydrides, acid olefins, olefinic ketones and mixtures thereof.

15. **(Original)** A resin composition according to claim 1, wherein the dienophile is an aromatic vinylic hydrocarbon, an acrylic hydrocarbon or a mixture thereof.

16. **(Original)** A resin composition according to claim 15, wherein the dienophile is styrene.

17. **(Original)** A resin composition comprising a polymer and at least 5 % by weight of an ester compound, wherein the ester compound and the polymer are obtained by reacting a polycyclic hydrocarbon diene, a dienophile and a rosin acid, a derivative of a rosin acid or a mixture thereof, wherein the resin composition has an acid number below about 50.

18. **(Original)** A resin composition according to claim 17, wherein the dienophile is selected from the group consisting of terpenes, cyclic hydrocarbons, anhydrides, acid olefins, olefinic ketones and mixtures thereof.

19. **(Original)** A resin composition according to claim 17, wherein the dienophile is an aromatic vinylic hydrocarbon or acrylic hydrocarbon or a mixture thereof.

20. **(Original)** A resin composition according to claim 17, wherein the ester compound and the polymer are obtained by reacting a diene, a dienophile and either a rosin acid, a derivative of a rosin acid, or a mixture thereof, present in a reaction mixture, wherein the reaction mixture comprises up to about 75 % by weight of the diene, up to about 55 % by weight of the dienophile, and from about 10 up to about 75 % by weight of the rosin acid, the derivative of a rosin acid, or the mixture thereof.

21. **(Original)** A resin composition comprising at least 5 % by weight of an ester compound, and a polymer, wherein the ester compound and the polymer are obtained by reacting a polycyclic hydrocarbon diene, styrene and a rosin acid, a derivative of a rosin acid, or a mixture thereof.

22. **(Original)** An adhesive composition comprising a resin composition, wherein the resin composition comprises at least 5 % by weight of an ester compound, the resin composition also comprises a polymer, wherein the ester compound and the polymer are obtained by reacting a diene, a dienophile and a carboxylic acid.

23. **(Original)** An adhesive composition according to claim 22, which is an aqueous pressure sensitive adhesive composition.

24. **(Original)** An adhesive composition according to claim 22, which is a hot melt pressure sensitive adhesive composition.

25. **(Original)** An adhesive composition according to claim 22, which is a flooring pressure sensitive adhesive composition.

26. **(Original)** A method for producing a resin composition which comprises providing a reaction mixture comprising up to about 75 % by weight of a diene, up to about 55 % by weight of a dienophile, and from about 10 to about 75 % by weight of a carboxylic acid, heating the reaction mixture at a temperature from about 175 °C up to about 310 °C for about 1 up to about 2 hours.

27. **(Original)** A method for producing a resin composition according to claim 26, wherein the reaction mixture comprises from about 15 to about 60 % by weight of a diene, from about 10 to about 45 % by weight of a dienophile, and from about 15 to about 60 % by weight of a carboxylic acid.

28. **(New)** A method for producing a resin composition according to claim 26 wherein the carboxylic acid is a rosin acid, and the diene, the dienophile, and the rosin acid are reacted in the presence of a disproportionation agent.

29. **(New)** A resin composition according to claim 1 wherein the carboxylic acid is a rosin acid, and the diene, the dienophile, and the rosin acid are reacted in the presence of a disproportionation agent.

30. **(New)** An adhesive composition according to claim 22 wherein the carboxylic acid is a rosin acid, and the diene, the dienophile, and the rosin acid are reacted in the presence of a disproportionation agent.